


Form PTO-892 U.S. Department of Commerce	Serial Number 08/346,270	Group Art Unit 1623	Attachment to Paper Number	19
Notice of References Cited	APPLICANT(S) Goodchild et al.			

U. S. Patent Documents

*		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	Filing Date If Appropriate
*	A	4 4 6 9 8 6 3	09/04/84	Ts'o et al.	536	024.500	
*	B	4 5 8 7 0 4 4	05/06/86	Miller et al.	530	211.000	
*	C	4 5 1 1 7 1 3	04/16/85	Miller et al.	536	024.500	
*	D	4 6 8 9 3 2 0	08/25/87	Kaji	514	044.000	
*	E	4 8 0 6 4 6 3	02/21/89	Goodchild et al.	435	005.000	
*	F	5 2 7 6 0 1 9	01/04/94	Cohen et al.	514	044.000	
*	G	4 9 5 9 4 6 3	09/25/90	Froehler et al.	536	025.340	
*	H	5 2 6 4 4 2 3	11/23/93	Cohen et al.	514	044.000	02/22/88
*	I	5 2 7 6 0 1 9	01/04/94	Cohen et al.	514	044.000	02/22/88
*	J	5 2 8 6 7 1 7	02/15/94	Cohen et al.	514	044.000	11/16/92

Foreign Patent Documents

*		DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUB-CLASS		
*	L	0 1 8 5 4 4 4	06/25/86	Europe(EPO)	Cheng	-----	-----		
*	M	0 2 8 8 1 6 3	10/26/88	Europe(EPO)	Zon et al.	-----	-----		
*	N	0 3 0 0 6 8 7	01/25/89	Europe(EPO)	Cantin et al.	-----	-----		
*	O	8 3 0 1 4 5 1	04/28/83	World(PCT)	Tullis et al.	-----	-----		
*	P	4 7 0 3 4 5 1	06/18/87	World(PCT)	Neiman et al.	-----	-----		
*	Q	8 6 0 5 5 1 6	09/25/86	World(PCT)	Johnston et al.	-----	-----		

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Notice of References Cited	APPLICANT(S)			
	Goodchild et al.			

Other References (Including Author, Title, Date, Pertinent Pages, etc.)

*	R†	M. H. Caruthers, "DNA Synthesis for Nonchemists: The Phosphoramidite Method on Silica Supports," in <u>Synthesis and Applications of DNA and RNA</u> , S. Narang ed., Academic Press, New York, 1987, pp. 47-94, particularly pp. 79-88.
*	S†	Stephenson et al., "Inhibition of Rous Sarcoma Viral RNA Translation by a Specific Oligodeoxyribonucleotide," <i>Proc. Nat. Acad. Sciences USA</i> , 75(1), 285-288 (1978).
*	T†	Toulme et al., "Specific Inhibition of mRNA Translation by Complementary Oligonucleotides Covalently Linked to Intercalating Agents," <i>Proc. Nat. Acad. Sciences USA</i> , 83, 1227-1231 (1986).
*	U†	Harper et al., "Detection of Lymphocytes Expressing Human T-lymphocytropic Virus Type III in Lymph Nodes and Peripheral Blood from Infected Individuals by <i>in situ</i> Hybridization," <i>Proc. Nat. Acad. Sciences USA</i> , 83, 772-776 (1986).
*	V†	Torrence et al., "Strategies in the Design of Oligonucleotides as Potential Antiviral Agents," in <u>Targets for the Design of Antiviral Agents</u> , Les Arcs, France(1983), Plenum Press, 1984, DeClercq & Walker eds., pp. 259-285.
*	W†	Zamecnik et al., "Inhibition of Rous Sarcoma Viral Replication and Cell Transformation by a Specific Oligodeoxynucleotide," <i>Proc. Nat. Acad. Sciences USA</i> , 75(1), 280-284 (1978).
*	X†	Blake et al., "Inhibition of Rabbit Globin mRNA Translation by Sequence-Specific Oligodeoxyribonucleotides," <i>Biochemistry</i> , 24, 6132-6138 (1985).

† Month of publication data could not be determined from the copy in hand. Issue Number information is provided whenever possible following the volume number in parentheses.

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EXAMINER L. Eric Crane	DATE 08/12/02	page 2 of 7 ¥: Reference not presently available.
*A copy of this reference is not being furnished with this office action. (See Manual of Patent Examining Procedure, Section 707.05(a).)		

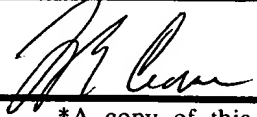
Form PTO-892 U.S. Department of Commerce	Serial Number 08/346,270	Group Art Unit 1 6 2 3	Attachment to Paper Number	1 9
Notice of References Cited	APPLICANT(S) Goodchild et al.			

Other References (Including Author, Title, Date, Pertinent Pages, etc.)

*	Y†	Goodchild et al. , "Inhibition of Expression of HTLV III Proteins in T-cells by Anti-Sense Oligodeoxynucleotides (Hybridons)," <i>Federation Proc.</i> , 45 (1986), page not specified.
*	Z†	Alizon et al. , "Genetic Variability of the AIDS Virus: Nucleotide Sequence Analysis of Two Isolates from African Patients;" <i>Cell</i> , 46, 63-74 (1986).
*	RA†	Fisher et al. , "Infectious Mutants of HTLV-III with Changes in the 3' Region and Markedly Reduced Cytopathic Effects," <i>Science</i> , 233, 655-659 (1986).
*	SA†	Hu et al. , "Expression of AIDS Virus Envelope Gene in Recombinant Vaccinia Viruses," <i>Nature</i> , 320, 537-540 (1986).
*	TA†	Pongs et al. , " <i>Shaker</i> Encodes a Family of Putative Potassium Channel Proteins in the Nervous System of <i>Drosophila</i> ," <i>EMBO Journal</i> , 7(4), 1087-1096 (1988).
*	UA†	Hedgcoth et al. , "Lysine tRNAs from Rat Liver: Lysine tRNA Sequences are Highly Conserved," <i>Nucleic Acids Research</i> , 12(5), 2535-2541 (1984).
*	VA†	Cribbs et al. , "The Structure of tRNA ⁵ _{lys} from <i>Drosophila melanogaster</i> ," <i>Nucleic Acids Research</i> , 10(20), 6393-6399 (1982).
*	WA†	Jean et al. , "Simple Sequence DNA Associated with Near Sequence Identity of the 3"-Flanking Regions of Rat Cytochrome P450b and P450e Genes," <i>DNA</i> , 7(5), 361-369 (1988).

† Month of publication data could not be determined from the copy in hand. Issue Number information is provided whenever possible following the volume number in parentheses.

†† Copy supplied by applicant.

EXAMINER L. Eric Crane 	DATE 08/12/02	page 3 of 7 ¥: Reference not presently available.
*A copy of this reference is not being furnished with this office action. (See Manual of Patent Examining Procedure, Section 707.05(a).)		

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Form PTO-892 U.S. Department of Commerce	Serial Number 08/346,270	Group Art Unit 1623	Attachment to Paper Number 19
Notice of References Cited	APPLICANT(S)		
	Goodchild et al.		

Other References (Including Author, Title, Date, Pertinent Pages, etc.)

*	XA†	Warmington et al., "A 'hot-spot' for Ty Transposition on the Left Arm of Yeast Chromosome III," <i>Nucleic Acids Research</i> , 14(8), 3475-3485 (1986).
*	YA†	Henikoff et al., "Conserved Arrangement of Nested Genes at the <i>Drosophila Gart</i> Locus," <i>Genetics</i> , 117, 711-725 (1987).
*	ZA†	Newport et al., "Cloning of the Proteinase That Facilitates Infection by Schistosome Parasites," <i>Journal of Biological Chemistry</i> , 263(26), 13179-13184 (1988).
*	RB†	Raba et al., "Nucleotide Sequence of Three Isoaccepting Lysine tRNAs from Rabbit Liver and SV40-Transformed Mouse Fibroblasts," <i>European Journal of Biochemistry</i> , 97, 305-318 (1979).
*	SB†	Sarin et al., "Inhibition of HTLV-III/LAV Replication by Foscarnet," <i>Biochemical Pharmacology</i> , 34(22), 4075-4079 (1985).
*	TB†	Smith et al., "Antiviral Effect of an Oligo(nucleoside methylphosphonate) Complementary to the Splice Junction of Herpes Simplex Virus Type 1 Immediate Early pre-mRNAs 4 and 5," <i>Proc. Nat. Acad. Sci USA</i> , 83, 2787-2791 (1986).
*	UB†	Miller et al., "Nonionic Oligonucleotide Analogs as New Tools for Studies on the Structure and Function of Nucleic Acids Inside Living Tissues," in <u>Nucleic Acids: The Vectors of Life</u> , Pullman & Jortner eds., Reidel Publishing Co., 1983, pp. 521-535.

† Month of publication data could not be determined from the copy in hand. Issue Number information is provided whenever possible following the volume number in parentheses.

†† Copy supplied by applicant.

EXAMINER L. Eric Crane 	DATE 08/12/02	page 4 of 7 ¥: Reference not presently available.
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Notice of References Cited	APPLICANT(S)			
	Goodchild et al.			

Other References (Including Author, Title, Date, Pertinent Pages, etc.)

*	VB†	Kawasaki, "Quantitative Hybridization-arrest of mRNA in <i>Xenopus</i> oocytes Using Single-stranded Complementary DNA or Oligonucleotide Probes," <i>Nucleic Acids Research</i> , 13(13), 4991-5004 (1985).
*	WB†	Miller et al., "Dinucleoside Methyl Phosphonates: Nonionic Analogs of Dinucleotides," <i>Federation Proceedings Abstract</i> , 36, 695 (Abstr. No. 2231) (1977).
*	XB†	Green et al., "The Role of Antisense RNA in Gene Regulation," <i>Ann. Rev. Biochemistry</i> , 55, 569-597 (1986).
*	YB†	Blake et al., "Hybridization Arrest of Globin Synthesis in Rabbit Reticulocyte Lysates and Cells by Oligodeoxyribonucleoside Methylphosphonates," <i>Biochemistry</i> , 24, 6139-6145 (1985).
*	ZB†	Miller et al., "Nonionic Nucleic Acid Analogues. Synthesis and Characterization of Dideoxyribonucleoside Methylphosphonates," <i>Biochemistry</i> , 18, 5134-5143 (1979).
*	RC†	Miller et al., "Syntheses and Properties of Adenine and Thymine Nucleoside Alkyl Phosphotriesters, the Neutral Analogs of Dinucleoside Monophosphates," <i>Journal of the American Chemical Society</i> , 93(24), 6657-6665 (1971).
*	SC†	Miller et al., "Biochemical and Biological Effects of Nonionic Nucleic Acid Methylphosphonates," <i>Biochemistry</i> , 20, 1874-1880 (1981).

† Month of publication data could not be determined from the copy in hand. Issue Number information is provided whenever possible following the volume number in parentheses.

†† Copy supplied by applicant.

EXAMINER L. Eric Crane 	DATE 08/12/02	page 5 of 7 ¥: Reference not presently available.
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Notice of References Cited	APPLICANT(S)		
	Goodchild et al.		

Other References (Including Author, Title, Date, Pertinent Pages, etc.)

*	TC†	King et al., <u>A Dictionary of Genetics</u> , Oxford Univ. Press, New York, 1985, see p. 330.
*	UC†	Goodchild et al., "Inhibition or Replication and Expression of HIV-I Tissue Culture by Oligodeoxynucleotide Hybridization Competition," in <u>Human Retroviruses, Cancer and AIDS: Approaches to Prevention and Therapy</u> , Alan R. Liss & Co., 1988, pp. 423-438.
*	VC†	Goodchild et al., "Antisense Agents Complementary to Human Immunodeficiency Virus," in <u>Antisense RNA and DNA</u> , Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, 1988, p. 135 et seq.
*	WC†	Matsukura et al., "Phosphorothioate Analogs of Oligonucleotides: Inhibitors of Replication and Cytopathic Effect of Human Immunodeficiency Virus," <i>Proc. Nat. Acad. Sci. USA</i> , 84, 7706-7710 (1987).
*	XC†	Zaia et al., "Inhibition of Human Immunodeficiency Virus (HIV) Using an Oligonucleoside Methylphosphonates," <i>J. Cellular Biochemistry, Supplement 11D</i> , p. 72, Abstr. No. P326 (1987).
*	YC†	Zamecnik et al. (II), "Inhibition of Replication and Expression of Human T-Cell Lymphotropic Virus Type II in Cultured Cells by Exogenous Synthetic Oligonucleotides Complementary to Viral RNA," <i>Proc. Nat. Acad. Sciences USA</i> , 83, 4143-4146 (1986).

† Month of publication data could not be determined from the copy in hand. Issue Number information is provided whenever possible following the volume number in parentheses.

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EXAMINER L. Eric Crane 	DATE 08/12/02	page 6 of 7 ¥: Reference not presently available.
*A copy of this reference is not being furnished with this office action. (See Manual of Patent Examining Procedure, Section 707.05(a).)		

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Other References (Including Author, Title, Date, Pertinent Pages, etc.)

*	ZC†	Matsukura et al. (II), "Phosphorothioate Analogs of Oligonucleotides: Novel Inhibitors of Replication and Cytopathic Effects of HTLV-III/LAV (Human Immunodeficiency Virus)," Abstract P313, UCLA Symposia on Molecular & Cellular Biology, 16th Annual Meeting, <i>Journal of Cellular Biochemistry, Supp. 11D</i>, -(1987).
*	RD†	Jacks et al., "Characterization of Ribosomal Frameshifting in HIV-1 <i>gag-pol</i> Expression," <i>Nature</i>, 331, 280-283 (1988).
*	SD†	Zon, "Oligonucleotide Analogues as Potential Chemotherapeutic Agents," <i>Pharmaceutical Research</i>, 5(9), 539-549 (1988).
*	TD†	Gura, "Antisense Has Growing Pains - Efforts to Develop Antisense Compounds for Cancer, AIDS, and Other Diseases Have Encountered Some Unexpected Questions About How the Drugs Really Work," <i>Science</i>, 270, 575-577 (1995).
*	UD	Krieg et al., "CpG Motifs in Bacterial DNA Trigger Direct B-Cell Activation," <i>Nature</i>, 374, 546-549 (April, 6, 1995).

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†† Copy supplied by applicant.

EXAMINER L. Eric Crane 	DATE 08/12/02	page 7 of 7 ¥: Reference not presently available.
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U. S. Patent Documents

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	H	5 2 6 4 4 2 3	11/23/93	Cohen et al.	514	044.000	02/22/88
	I	5 2 7 6 0 1 9	01/04/94	Cohen et al.	514	044.000	02/22/88
	J	5 2 8 6 7 1 7	02/15/94	Cohen et al.	514	044.000	11/16/92

Foreign Patent Documents

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Other References (Including Author, Title, Date, Pertinent Pages, etc.)

TD	Gura, "Antisense Has Growing Pains - Efforts to Develop Antisense Compounds for Cancer, AIDS, and Other Diseases Have Encountered Some Unexpected Questions About How the Drugs Really Work," <u>Science</u> , 270, 575-577 (1995).
UD	Krieg et al., "CpG Motifs in Bacterial DNA Trigger Direct B-Cell Activation," <u>Nature</u> , 374, 546-549 (06 April 1995).

EXAMINER L. Eric Crane <i>L. Eric Crane</i>	DATE 04/11/96	page 1 of 1 ☐ Reference not presently available.
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